



Material - UNI EN 1706 AC-45300

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNI EN 1706 Aluminium and Aluminium Alloys - Castings

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|-------------------------|-----------|
| Copper | Cu % | 1.000 - 1.500 | As-Cast | |
| Iron | Fe % | 0.650 max. | | |
| Magnesium | Mg % | 0.350 - 0.650 | | |
| Manganese | Mn % | 0.550 max. | | |
| Nickel | Ni % | 0.250 max. | | |
| Silicon | Si % | 4.500 - 5.500 | | |
| Lead | Pb % | 0.150 max. | | |
| Tin | Sn % | 0.050 max. | | |
| Titanium | Ti % | 0.200 max. | | |
| Zinc | Zn % | 0.150 max. | | |
| Other | Ot% | 0.150 max. | Mechanical Properties | |
| Aluminium | Al % | Balance | Tensile Strength in Mpa | 170 - 280 |
| - | - | - | Yield Strength in Mpa | 120 - 210 |
| - | - | - | Elongation in % | 1 - 3 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 80 - 110 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN AC-45300 | DIN | Germany | Casting |
| EN AC-45300 | EN | European Union | Casting |
| LM16 | BS | British | Ingot and Casting |
| EN AC-45300 | SFS | Finland | Casting |
| EN AC-45300 | AFNOR NF | France | Casting |
| EN AC-45300 | CSN | Czech Republic | Casting |
| EN AC-45300 | BDS | Bulgaria | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.